

What is claimed is:

- sub a 1. In an image communication apparatus for compressing video and audio data of an image and transmitting them, a data transmission protocol for an image communication apparatus, in which a packet data frame comprises:
- a header data for separating video data and audio data;
  - a transmission and reception data size based on a communication speed;
  - a compressed audio data and video data;
  - a control index representing an information for indicating an additional operation; and
  - a control data for notifying a receiver side of data relating to the additional operation.
2. The data transmission protocol according to claim 1, wherein the additional operation comprises image quality selection, image retransmission, privacy mode, and change in size of video data.
3. The data transmission protocol according to claim 2, wherein the control index represents an information for indicating more than one additional operation among the image quality selection, image retransmission, privacy mode, and change in size of video data.
4. The data transmission protocol according to claim 1, wherein the header data separates the video and audio data.

5. The data transmission protocol according to claim 4, wherein the header data further comprises a function for providing synchronization between a transmitter side and a receiver side.

5 6. The data transmission protocol according to claim 1, wherein the control data becomes an information for requesting the compression ratio of a video data to be transmitted, when the control index information is controlled to select the quality of an image.

10 7. The data transmission protocol according to claim 6, wherein the control data represents a sequence number(SN) for requesting a retransmission when the retransmission of the image data is requested in the control index information.

15 8. The data transmission protocol according to claim 6, wherein the control data represents the information of a packet size(SN+CRC+DATA) of the image data when the control index represents a change in the image data size.

20 9. The data transmission protocol according to claim 3, wherein the privacy mode is an information for representing the inverse of video or audio data and the reverse of video or audio data.

25 10. The data transmission protocol according to claim 9, wherein, in the privacy mode, the video or audio data is transmitted in the inverse or reverse state according to the above information.

11. The data transmission protocol according to claim 3, wherein, in the image data size, a sequence number and a CRC are inserted for each different size based on a predetermined value according to the change in image data size indicated by the control index information.

12. The data transmission protocol according to claim 11, wherein, when the data size is less than 15 Kbytes, the sequence number and the CRC are inserted for every 64 bytes or 128 bytes.

13. The data transmission protocol according to claim 11, wherein, when the data size is more than 15 Kbytes, the sequence number and the CRC are inserted for every 256 bytes or 2048bytes.

14. In an image communication apparatus for compressing video and audio data of an image and transmitting them, a data transmission protocol for an image communication apparatus, in which a packet data frame comprises:

- a header data for separating video data and audio data;
- a transmission and reception data size based on a communication speed;
- a compressed audio data and video data;
- a control index for indicating an image quality selection, image transmission, a privacy mode, and change in the video data size; and
- a control data for notifying a receiver side of data corresponding to the above indication.

15. The data transmission protocol according to claim 14, wherein the control index selects more than one additional operation among the image quality selection, image retransmission, privacy mode, and change in size of video data, and indicates the same.

5 16. The data transmission protocol according to claim 14, wherein the header data separates the video and audio data.

10 17. The data transmission protocol according to claim 16, wherein the header data further comprises a function for providing synchronization between a transmitter side and a receiver side.

15 18. The data transmission protocol according to claim 14, wherein, in the image data size, a sequence number and a CRC are inserted for each different size based on a predetermined value according to the change in image data size indicated by the control index information.

19. The data transmission protocol according to claim 14, wherein the privacy mode is a security mode for privacy control.